

# MEMORANDUM

DEPARTMENT OF TRANSPORTATION  
Design/Construction  
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Date: April 26, 1999

To: All CDOT & Consultant Design & Construction Personnel

From: S. W. Horton

Subject: Temporary Excavation Support

In the past excavation shoring, when needed, has not always been well delineated by the plans and the cost has typically been included in item 206 structural excavation. This has made it difficult for contractor's to detect possible shoring needs when preparing bids. We need to clearly identify this work in the plans and pay for it in the most appropriate manner. This will aid Contractors during bidding, and all personnel during construction.

To accomplish this, design personnel are asked to show the approximate locations of where excavation shoring may be needed. Typically this should be shown in the plan view on structure general layouts. The first general note on structural plan sets, which addresses structural excavation and backfill, shall be modified when shoring is needed. *CDOT's Staff Bridge Worksheet B-000-0* and *C-000-0* have been revised accordingly, see attached. The note shown shall be changed as necessary to satisfy project specific conditions.

In addition, the *Special Provision 206, Shoring*, shall be included in the contract, see attached. This has been a project special provision. It was revised to include a separate pay item for excavation shoring and will be submitted to the CDOT Specification Committee to be made a Standard Special Provision.

Because the exact details and extent of shoring are dependent on the Contractor's means and methods, the structural details for excavation shoring will generally not be shown in the plans, and the work will not be measured, but paid for by lump sum.

The directions in this memorandum apply when the requirements in the plans and specifications make excavation shoring necessary. They do not apply to situations where shoring is not required, and the contractor elects to use shoring for his or her convenience. In this situation excavation shoring will be included in the cost of structural excavation.

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Please review these new standards and directions. If you have any questions or recommendations for improvement please contact Mark Leonard, Bridge, 757-9486.

Electronic copies of these and other Staff Bridge standards can be obtained at  
<http://www.dot.state.co.us/business, design, bridge>.

Attachment: Drawing B-000-0, C-000-0, & Special Provision 206 Shoring.

SWH/MAL/mal

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